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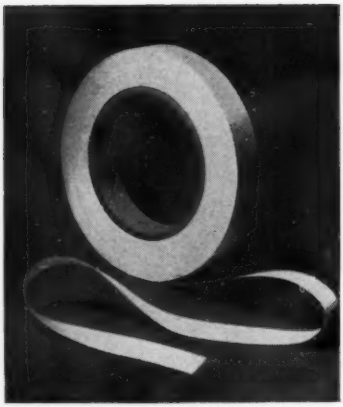

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JOHNS-MANVILLE CORPORATION CELEBRATES ITS 100th ANNIVERSARY

Johns-Manville Corporation, which observes its 100th Anniversary in 1958, originated when H. W. Johns, a 21-year-old Yankee from West Stockbridge, Mass., started out as a jobber and manufacturer and developed the business in a New York City basement work shop.

In 1858, in the midst of a national "financial panic" when 4,225 other businesses and banks were failing, he began the manufacture of paints and coatings for roofs and for preserving wood, metals and fabrics. He manufactured a gutta percha "portable roofing" which came into general use in nearly all parts of the world.

Almost at once he became interested in the fireproof qualities of asbestos fibre, which he found described in the 1859 edition of the Encyclopedia Americana and which was not then in general commercial use. He began experiments with asbestos fibre in roofing applications and became a pioneer in the development of the world-wide asbestos industry.

From 1858 to 1860 he did business at four successive locations. His first location was at 349 Fulton Street, Brooklyn, opposite the Brooklyn City Hall. He soon moved across the East River to 120 Wall Street at the corner of South Street, opposite the East River docks. Then he moved to 510 Broadway. Finally, in 1860, he found a more permanent address at 78 William Street, where he operated for 13 years.

He made known the results of his continued research and experimentation with asbestos fibres which he obtained from outcroppings on Staten Island, N. Y., in 1868, at the end of the Civil War. Mr. Johns began manufacturing numerous specialties composed wholly or in part of asbestos fibres, many of which were destined to become standard materials for mechanical, structural and electrical applications.

Expanding business forced the company to seek en larged manufacturing space in 1873 and H. W. Johns moved his business offices to 87 Maiden Lane in Lower Manhattan. Production was transferred to this company's first real factory which it had built in Long Island City,

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N. Y. It was from these locations that H. W. Johns actually launched the world-wide asbestos industry.

Increased demands for asbestos fibre, which H. W. Johns had stimulated, led to the discovery in 1876 of huge deposits of high quality ore in Quebec, Canada. The superior quality of the Quebec fibre made possible much wider uses of the "magic mineral". Large quantities of this basic raw material became available to H. W. Johns for expanded commercial production in the United States. Asbestos products began to appear all over the world.

When Mr. Johns died in 1898, the NEW YORK TIMES and the NEW YORK HERALD both identified him as the "pioneer of the asbestos industry".

Three years later, in 1901, the Manville Covering Company of Milwaukee, in business since 1886, was merged with the H. W. Johns Manufacturing Company of New York, taking the firm name of H. W. Johns-Manville Company on January 1, 1902. In 1920, the company became known as Johns-Manville, Incorporated. T. F. Manville, Sr., was President. He died in 1925 and his brother, H. E. Manville succeeded him as President. Shortly thereafter, in 1927, the company began its transition from limited to widespread ownership under its present name of Johns-Manville Corporation. Meanwhile, headquarters of the company had been moved in 1898 from 87 Maiden Lane. The offices went to 100 William Street. Production was transferred to a new plant in Brooklyn built to replace the first Long Island City plant, which had burned. In 1912, company headquarters were moved again, this time to 292 Madison Avenue. A new plant was opened at Manville, New Jersey, that year, and the Brooklyn plant sold three years later.

The late T. F. Merseles, formerly with Montgomery Ward and Company of Chicago, became President in 1927, and he was succeeded upon his death in 1929 by Lewis H. Brown who came from Montgomery Ward and Company with Mr. Merseles.

The passing from limited to widespread control brought a change in company operations. With a great number of stockholders, (now in the neighborhood of 20,000 and with America once more in the grip of a de-

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pression, it became necessary to redouble efforts to increase business, safeguard investments of stockholders and jobs of employees.

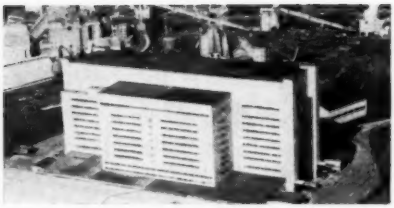
Accordingly, the many lines of J-M products were classified and organized into groups. In the case of adverse economic conditions in one particular field, such as construction, the range of products in industrial lines could be counted upon to hold business for the company at a relatively stable level. Johns-Manville became in effect a combination of about 18 different businesses.

Johns Manville was no longer strictly "a building materials firm". The Company's sales of building materials used in construction, repair and maintenance, exclusive of pipe and conduit, now constitute considerably less than half of its business. An important part of the Company's business is in the field of water pipe, conduit and industrial products, sales of which are substantially unaffected by seasonal fluctuations. Under its continuing program of diversification Johns-Manville has become the largest producer of asbestos-base products and one of the largest producers of asphalt building supplies in the United States.

The products now are organized into some 400 different lines and in general are designed for control of heat, cold, sound and motion and protection against fire, weather and wear. To mine, manufacture and sell these products, the company employs normally about 21,300 persons, operates facilities at 26 plant, mine and mill locations in the United States and Canada, and 80 sales offices.

Johns-Manville has had three phases in its 100 years of existence—the period of closely held private ownership from 1858 throught 1920's, the period of widespread ownersip since that time, and a third period of improvement and expansion since the end of World War II. Since 1946, more than $200 million has been invested in new plants, equipment, modernization and replacement.

The company built new plants at Tilton, N. H., Natchez, Miss., and Port Union, Ontario, Canda right after the war. Existing factories were enlarged and then J-M began a second program of expansion.



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JOHNS-MANVILLE

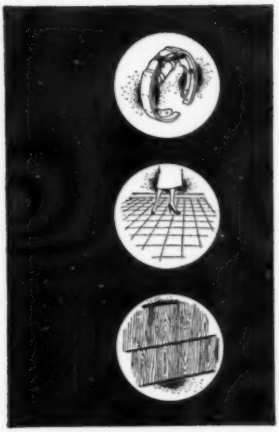
This further post war growth included a new plant for the J-M Dutch Brand Division at Chicago, Ill., two new plants for manufacturing Transite asbestos-cement pipe at Stockton, Calif., and Denison, Texas; construction of two new plants for manufacturing insulating board at North Bay, Ontario, and Klamath Falls, Ore.; construction of a floor tile plant at Marrero, La., construction of a second plant at Natchez, Miss., for manufacture of hardboard; construction of an asphalt roofing products plant at Savannah, Ga., construction of a new asbestos mill at the Jeffrey Mine, Asbestos, Quebec; construction of a new warehouse for asbestos fibre at Asbestos, Quebec, expansion of underground mining operations at the Jeffrey Mine and development of underground mining at the company's Munro Mine in Northern Ontario.

A new Research and Engineering Center was built at Manville, New Jersey, providing the largest facilities in the world devoted to building materials, insulations and allied industrial products, and special equipment and facilities needed for manufacture of new and improved products.

The J-M Research and Engineering Center is equipped for the most modern application of science to industry. It utilizes 337,000 square feet of floor space and provides for all research technical activities including: fundamental scientific research, product development, process improvements involving product quality, pilot plant and semi-works scale experiments, design and initial construction of new product equipment, testing of building materials and industrial products. It serves as a central source of technical information.

It is located on a 93-acre plot of land, on which three research buildings and one general engineering building have been built and are now in operation. In addition to normal research laboratory facilities, two research buildings provide a dozen or more experimental factories. Projects thus initiated in the research laboratory are carried through their development and pilot plant production stages to practical plant commercialization production.

To give impetus to its continuing post-war improve-



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ment and expansion program, Johns-Manville on September 19, 1946, reorganized production and sales activities of the company into six stream-lined operating divisions to function virtually as independent businesses.

These divisions, embracing all activities of the company, as their names imply, were the Building Products Division, Industrial Products Division, Celite (Diatomite) Division, Asbestos Fibre Division, Canadian Products Division and International Division.

In 1947 Johns-Manville acquired Van Cleef Bros. Incorporated, of Chicago, Illinois, internationally known manufacturers of "Dutch Brand" industrial and automotive products. This acquisition is operated as the Johns-Manville Dutch Brand Division. The Company also acquired the Goetze Gasket & Packing Co., Inc., manufacturers of metallic gaskets and packings that same year to augment this line of J-M products.

A major realignment of executive responsibilities under which the late Lewis H. Brown, who had been President since 1929, was elected Chairman of the Board of Directors and Chief Executive Officer, made the divisional reorganization of the company effective. Mr. Brown was succeeded as Chairman in 1951 by Leslie M. Cassidy; A. R. Fisher, who had joined Johns-Manville in 1923, became President.

Mr. Cassidy's election as Chairman came shortly after the Company had broken all its previous records with annual sales in 1950 in excess of $200 million, a position to which Mr. Cassidy himself had contributed as Vice President for Sales. By the end of 1956, annual sales of Johns-Manville were more than $300 million annually.

Johns-Manville operations were still further streamlined and specialized late in 1955 to keep abreast the Company's continued expansion and diversification. At that time the Industrial Products Division was reorganized and expanded into 3 separate operating divisions known as the Industrial Insulations Division, the Packings & Friction Materials Division, and the Pipe Division, bringing the total number of separate operating divisions to nine.

Mr. Cassidy retired as Chairman in November 1957,

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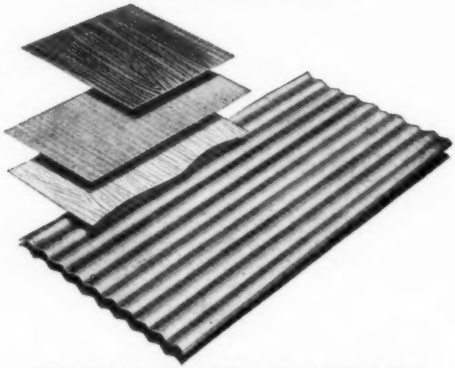

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but continued in office as a Director and management consultant. At that time, A. R. Fisher, President, assumed the additional office of Chairman and Chief Executive Officer. In this further realignment of executive responsibilities, Clinton B. Burnett, who had joined Johns-Manville in 1931 and gained wide company experience in cost reduction, engineering, production and administration, was elected to the newly created post of Executive VicePresident. Mr. Burnett was also elected a Director of Johns-Manville and designated as the principal assistant in the administration of the Company.

BUILDING

Ten office building contracts in Manhattan accounted for ten percent of all the commercial building contracts in the United States last year, according to an annual re view of F. W. Dodge Corporation construction contract statistics issued recently.

The review, written by Dodge vice president and economist George Cline Smith, also brought out these facts, among others:

**California was by far the leading state in total construction contracts.

**Building costs tended to level off during 1957.

**The first and second halves of 1957 presented distinctly different construction patterns, with housing, which had been weak in the first half, showing definite signs of a pick-up in the second, and non-residential and heavy engineering contracts weakening after a strong first half.

**Contracts for manufacturing buildings were weak most of the year, giving advance indication of the downturn that showed up later in business spending for new plant and equipment.

**School contracts went up to a new high point, but did not increase as much as had been anticipated. Highway contracts showed a similar pattern.

Full text of the review, which gives details of Dodge statistics can be obtained from the F. W. Dodge Corporation, 119 West 40th Street, New York 18, N. Y.

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NICOLET INDUSTRIES, INC. (HISTORY)

Nicolet Industries, Inc., which was made up of four separate and distinct firms, was first founded 70 years ago in 1888.

The first component of this firm, which has not had much dealings with the consumer, but is well known throughout the industries which it serves, was an asbestos fabricating operation. In those days, asbestos was mined in the United States as well as in the Canadian Province of Quebec.

Asbestos and Metal Industries, Corp., was the founding father of what is now known as Nicolet Industries, Inc. It was comprised of Nicolet Asbestos Mines, Ltd., Norristown Magnesia and Asbestos Co., and the Sall Mountain Co., an asbestos manufacturer in the State of Illinois.

Norristown Magnesia, at Norristown, Pa., was an asbestos products manufacturing firm which also produced steel boiler jackets and the interior insulation for these jackets. The steel boiler operation's name was changed to Valley Forge Metals Co., in 1946 and today still is a part of Nicolet Industries, Inc. The Valley Forge operation is aimed primarily at design, fabricating, painting and assembly of sheet steel, aluminum, brass, copper and other metal products.

One of the components of Nicolet Industries, Inc., Modiglass Fibres, Inc., will also have its executive offices, research and development laboratory area contained in the new facilities at Florham Park, New Jersey.

Modiglass, under the leadership of Dr. Piero Modigliani, was among the early pioneers in the glass fibre industry and operates under patents developed by the Doctor who serves as Executive Director of Research of the firm.

Modiglass' process is unique in that continuous fibres are drawn which maintain their integrity throughout the various processing operations and in the final product. A large portion of the production is used by the reinforced

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plastic industry for surfacing and decorative effects in reinforced plastics.

Some items which contain Modiglass products are: station wagons and sports cars, water skis, boats, tubs, swimming pools, corrugated panels and many other reinforced plastic items.

Modiglass also manufactures glass fibre material for use in air filtration. It expects to enter the roofing material field and supply glass fibre material for anti-corrosion wrapping of various types of liquid and gas transmission lines in the near future.

In 1956 all of the component companies were consolidated into one firm, Nicolet.

According to Guy George Gabrielson, Jr., president of Nicolet Industries, Inc., "This centralizing of the firms into one is being accomplished during a time when many of the nation's leading manufacturing companies are attempting to decentralize their operations.

"At Nicolet, we feel that this centralization is more of a streamlining of our operations for the benefit of present customers and potential customers. The basis of this centralization is the new office, research and laboratory facility at Florham Park, New Jersey. Here we will be better able to provide our customers with research and development of both new and old products, tailoring our projects to the specific needs of each customer".

In 1929 Nicolet Asbestos Mines, Ltd., was developed and opened its mine at Norbestos, Warwick, Quebec. Today this mine supplies various grades of asbestos fibre for use in the many products manufactured by Nicolet and its customers.

The firm mines and sells asbestos fibre and manufactures and markets asbestos materials for fire proofing and insulation uses, automotive and heating gaskets, frictional applications, pipe insulation, protective felts for pipe lines, roofing and sidings, electrical insulation and for filtration. Other products include boiler and water cooler jackets, baseboard radiation panels, automotive components and custom metal work of many types.

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$600-BILLION BUILDING BOOM FORECAST FOR NEXT DECADE

A construction boom of "dazzling" proportions which will see building expenditures in the next ten years climb 50 per cent over the past record decade was forecast by Architectural Forum. The magazine predicted that construction outlays between now and 1967 will amount to a staggering $600 billion compared with $409.6 billion from 1948 through 1957.

The $600 billion figure represents more than the present value of all existing private structures.

Forum's vision of the future, which it terms "fabulous", is based on two studies just completed by the magazine's economic consultant, Miles Colean. One of the surveys covers the probable level of construction activity for the current year. The other is the Forum estimate of building volume for the decade ahead. Taken together, the two studies represent the latest and most comprehensive data available on the building outlook.

Here are some of the factors that will help make the next ten years this nation's greatest building era, according to Forum: $200 billion to be spent on residential building alone; $85 billion on industrial and commercial construction; $16 billion on religious and private institutional buildings; and $75 billion on utilities. Outlays for schools and educational facilities will amount to about $45 billion, while highway spending will total at least $75 billion, and outlays for sewer and water systems, nearly $20 billion.

The magazine says that the outlook for building is so "dazzling" that the only "troubling question" is whether the economy can supply the men and materials that will be needed to make the goals attainable.

"If the economy can achieve these building objectives, it will have an unprecedented prop for prosperity not only for the next ten years but for all the decades beyond," the magazine said.

As for the immediate future, Forum sees new construction this year climbing nearly 4 per cent above last year's total of $47.3 billion to a new record of $49 billion

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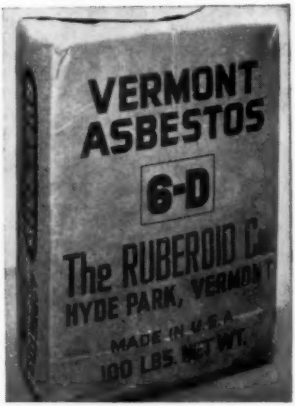

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(all data in constant 1957 dollars). This will mark an increase in actual "physical volume". In contrast during 1957 dollar volume rose 3 per cent ($1.2 billion) because of inflation, but physical volume dipped about 1 per cent.

Helped by apartment construction, which, according to Forum, should top 100,000 units this year, housing can now look to a year in which about 1,050,000 new units will be started, compared with the 1-million-or-less units that were forecast last fall and 1957's actual total of 1,039,200.

Beyond this, says Forum, it now seems likely there will be a "slight pickup" in commercial construction, about 4.5 per cent over the autumn forecast, with easier money again responsible.

The magazine also sees added building by privately financed public utilities, now expected to total $6.2 billion. This extra $1.2 billion gain in dollar volume will be more than enough to compensate for a bigger dip than previously anticipated in industrial construction.

By 1967, says Forum the annual rate of new construction will have soared to nearly $70 billion (in 1957 dollars), a massive 48 per cent increase above last year.

The current slump in industrial and commercial building will soon be forgotten. Despite all the talk of overcapacity, the U. S. today is actually greatly underequipped to meet the long-range challenges of more people, better living standards, and new production techniques. By 1967, Forum anticipates that the annual rate of factory building will be more than 70 per cent higher than now; commercial construction, which will have to strain to meet the needs of new urban redevelopment, will have increased by 43 per cent.

By 1967, the number of households in the U. S. will have risen to about 58.2 million. As a reuslt, 1.5 million new housing starts a year will be as common ten years from now as 1 million are today. Apartment construction alone will be running at a rate of 200,000 to 300,000 new units a year (compared with about 100,000 units now). In all, the volume of housing is likely to be nearly 45 per cent greater in 1967 than it is now.

Ten years from now, the number of young people of school and college age will have soared from today's 44.8

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million to more than 58 million. Educational building will be racing against population growth, and the volume of school construction will be at least 45 per cent greater in 1967 than last year.

Population growth, rising health standards, and new medical discoveries will add tremendously to required outlays for hospitals and research centers. Spending for this purpose, which was less than $850 million in 1957, will be more than $1.6 billion in 1967. Meanwhile, church building will continue to boom.

At the end of the coming decade, annual outlays for highway and street construction will still be rising, even though the spending rate, now $4.8 billion a year, will have topped $9 billion (exclusive of right-of-way costs).

The statistical assumptions underlying its ten year forecast are exceedingly "conservative" — assuming that the coming decade will be free of war and serious depression the magazine says. Forum has "no fear" that its estimates are too optimistic. They are based on projections of statistics that understate the actual volume of construction today (e. g., further adjustments will probably have to be made in the estimates for new dwelling units as a result of the Census Bureau's 1956 housing inventory, which has just been published). Beyond this, the estimates are also conservative in that they assume that the American standard of living — i. e., productivity — will rise no faster during the next decade than during the last one.

With such auspicious prospects for the decade as a whole, the construction industry should be able to take in stride the occasional years when expansion may falter Forum said.

Johns-Manville Corporation recently issued a very attractive and instructive four-page pamphlet entitled "Johns-Manville Asbestos Papers".

The pamphlet contains descriptions of the various asbestos papers, uses, tables and illustrations.

Copies may be obtained from Johns-Manville Corporation, 22 E. 40th Street, New York 16, N. Y.

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MARKET CONDITIONS

GENERAL BUSINESS.

No reversal of the downward trend in General Business was noted during February. Employment kept slipping off and some major automakers curtailed production to prevent further buildup of dealers stocks. Exceptionally bad weather over much of the country contributed to the slowdown in retail sales. In the face of the generally downward trend of production and take home pay prices keep pushing upward. This tends to aggravate the situation since the wage earner whose reduced take home pay is shrunk even further by still rising prices is definitely postponing purchase of that new car or higher priced appliances till he can be more certain as to the direction of the next bounce of the ball. Further steps to ease the credit situation have been taken but a revival of confidence seems much more important at the moment than a lowering of interest rates.

ASBESTOS — RAW MATERIAL

Shipments of raw asbestos in February were about normal for this season of the year, when shipments generally run below the average normal for the year.

All grades of fibre are in ample supply and relatively heavy inventories are being carried by all producers. On the opening of navigation in the Spring it is anticipated that shipments will run in similar volume to those of last year.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. Some improvement has been experienced in sales. However, order bookings continue at a relatively low ebb. The sales picture has improved only because of releases that have been made against purchase commitments that were received in the latter part of 1957. There is not much prospect of increased volume over 1957, and industry is expected to find it difficult to match the sales volume of last year.

Asbestos Brake Lining. This market is very fair as compared to other industries. Replacement business is

FAST FILTERING FIBRE

FOR ASBESTOS — CEMENT

ADVOCATE MINES LIMITED has extensive reserves of slightly harsh, quick draining, chrysotile asbestos near tidewater in Newfoundland.

PRODUCTION PLANS are being made to begin large scale output of raw fibres in two years' time.

ASBESTOS-CEMENT MANUFACTURERS will find that the unusual quality of the fibre and its location permit low fabricating cost and high product strength.

MODERN MILL DESIGN will permit selective production of any fibre grade in Canadian Groups 4, 5, 6, plus shorts and floats.

We will be glad to forward samples and further information on request.

ADVOCATE MINES LIMITED

Suite 908, 330, Bay Street, Toronto,
Canada.

expected to have an excellent year but equipment should be off as cars are not selling.

Asbestos Paper. Demand for this material is still far below plant capacity. It is anticipated that volume will increase during the coming months and be as good, if not better, than last year. Orders for *Millboard* remain light and no considerable change is expected in the near future. The market for *Saturated Paper* is seasonably low with sales about normal for this time of year.

Insulation. High Pressure. The market situation at the present time appears to be static. There is very little activity as there does not appear to be any rush on the part of purchasing people to sign contracts for materials required in the future.

Insulation. Low Pressure. Orders for this material have fallen off noticeably in the past three weeks and competition is very keen for the business that is available. Volume is expected to increase during the next three or four months.

Asbestos Cement Products. While the market remains seasonally slow, it is expected to be better than last year.

Order placements for *Roofing & Siding* during February were slightly more than for January, however, considerably less than for the same period a year ago.

While the demand for *A-C Pipes* is very low, the market situation appears better than this month, last year. It is anticipated that a volume at least equivalent to 1957 will be done. This prognostication is based on anticipated housing starts.

Complete Plants for making

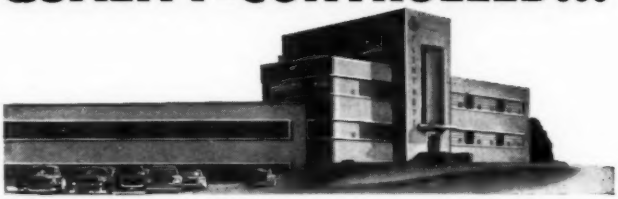
ASBESTOS CEMENT PIPES

Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Small Cement Plants

Plants designed, equipped and financed.

ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P. O. Box 34.649

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

A new four-page, two-color folder illustrates and describes improved Condersite Pulley Lagging and its many advantages. When applied to power transmission pulleys or rollers, Condersite, a fabric of woven asbestos, eliminates belt slippage by providing a better grip. Condersite also permits more belt slack, thus lengthening belt life and reducing the srain on bearings and machine parts.

The folder describes the product, its uses and methods of application. Write to Condersite Eingineering Corporation, 2015 Chancellor St., Philadelphia 3, Pa.

THE CAPE ASBESTOS COMPANY LIMITED
Changes on Board of Directors

Following the retirement of *Mr. Robert Walker, Chairman; Mr. K. C. Gray, Director* and *Mr. A. H. R. Sellar, Secretary*, the Board and Secretary are now: *Mr. Giles Newton*, Chairman; *Mr. R. H. Dent* and *Mr. T. C. Hale*, Joint Managing Directors; *Mr. R. St. G. Riley*, Sales Director; *Mr. George Courtauld; Lord Elton; Mr. S. D. H. Pollen; Mr. T. Muir Warden (Mr. George W. Flint*, alternate), and *Mr. F. M. L. Olsen*, Secretary.

PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

THE PROTECTOR CO. • **GRANT WILSON, INC.**
SO. BOSTON 27, MASS. CHICAGO 4, ILL.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
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Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing

FITTINGS

OF EVERY SHAPE AND DIMENSION

—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy
Cable: MINITA—MILANO **Phone: 26 67 27**

THE COVER

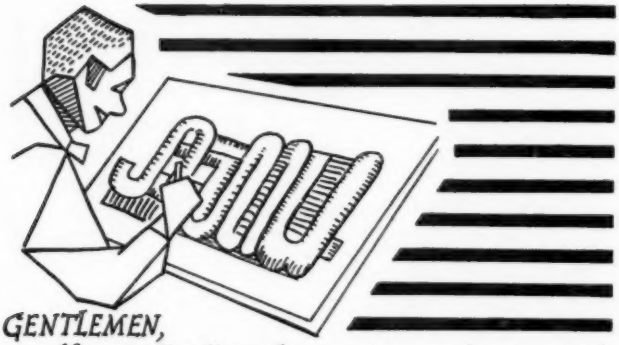
The photograph on our cover is Nicolet Industries, Inc.'s new building at Florham Park, New Jersey. One of the most modern structures of its type, with facilities for research and development of old and new products, opened in this New Jersey community March 14, 1958. The new building contains the executive offices and research and development facilities of Nicolet Industries, Inc., long a leader in the asbestos industry.

Also included in the space is Modiglass Fibres, Inc., a component of Nicolet, which develops and manufactures glass fibres for all uses.

The 20,000 square feet of expandable space includes office areas; the chemical laboratory; physical testing laboratory; engineering section, including a draughting area; workshop, in which models and prototype products will be developed and tested; the pilot area, where new asbestos and glass fibre products will be developed and new processing concepts evaluated.

In line with Nicolet's policy of servicing its customers to the fullest, the laboratories will be used to test Nicolet products as well as products of the firm's various customers. They will also be used to service the needs of customers for the development of new and better products in the asbestos and glass fields.

The chemical laboratory will contain all the basic essentials for both analytical and experimental work in the various fields. The physical laboratory will also include all of the machinery needed to test Nicolet products as well as customers' products, and at the same time work at developing new and better products. The machinery in this laboratory will initially include a universal type tension-compression testing machine; impact testing equipment, tension testing machine; high temperature gas fired muffle furnace; a pilot size, high temperature oven and asbestos making and paper testing equipment.

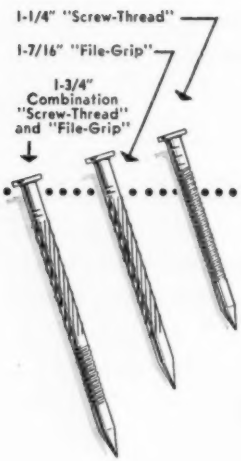


GENTLEMEN,

If we could tell you how to make a machine in which you could put 50c and pull out a dollar every time and all the time that would interest you. Sorry! We can't do that, but you can save as much money easily, quickly and all the time By changing to —

THE
NEW HARDMAN
NEEDLE REINFORCED
ALL NYLON FELT
By special process for which patents have either been granted or applied for in many countries.

Thomas Hardman & Sons, Ltd.,
Fernhill Mills
Bury, England



new!

nichols
NEVER-STAIN

PAINTED
ALUMINUM
ASBESTOS FACE
Nails

TO MATCH
THE *NEWEST*
COLORS IN
ASBESTOS SIDING

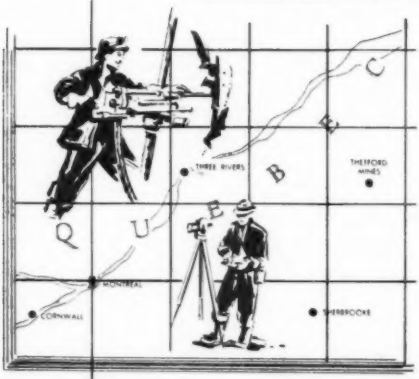
- **PAINTED TO MATCH YOUR EXACT COLOR REQUIREMENTS**
- **EXCELLENT PAINT ADHERENCE**
- **AVAILABLE IN ALL COLORS AND WHITE**

Your products deserve the best fasteners available. Protect their beautiful colors with inconspicuous NICHOLS RUSTPROOF PAINTED ALUMINUM NAILS. We will paint aluminum asbestos face nails to meet your exact color-match requirements; also available in the satin etched finish. Write today.

nichols WIRE & ALUMINUM CO.
DAVENPORT, IOWA

LYNN, MACLEOD

ENGINEERING SUPPLIES, LIMITED



ASBESTOS MILLING EQUIPMENT

DESIGNERS
MANUFACTURERS
&
DISTRIBUTORS

METALLURGY DIVISION FOR STEEL CASTINGS

PACKOMATIC BALE SEALER
FLEXOVEYOR BAG FLATTENER
ROTEX SCREENERS
BAUER SEPARATORS
ENTOLETER FIBERIZERS
SYNTRON VIBRATORY FEEDERS
RAYMOND WHIZZERS
SCALES & MAGNETS
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CYCLONES
ROTARY VALVES
ASPIRATORY PIPING
PRECOMPRESSORS
MULTI-STAGE FIBERIZERS
FIBRE GRINDERS
QUEBEC STANDARD TESTING MACHINES
CONVEYING EQUIPMENT

LYNN, MACLEOD ENGINEERING SUPPLIES, LTD.

MINING AND ENGINEERING REQUIREMENTS
THETFORD MINES, QUEBEC, CANADA

BRANCHES

THREE RIVERS · MONTREAL · SHERBROOKE · CORNWALL, ONT.

AUTOMOBILE SALES

	December 1957
Passenger Cars	555,242
Motor Trucks	87,327
Motor Coaches	287

In December 1956, a total of 700,740 motor vehicles were sold. Sales for the year 1957 amounted to 7,214,183.

International Asbestos Cement Review
An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions
Circulation exceeding 44000
Editions Girsberger, 40 Kirchgasse, Zurich, Switzerland
(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.
Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.
Your inquiries are most welcome

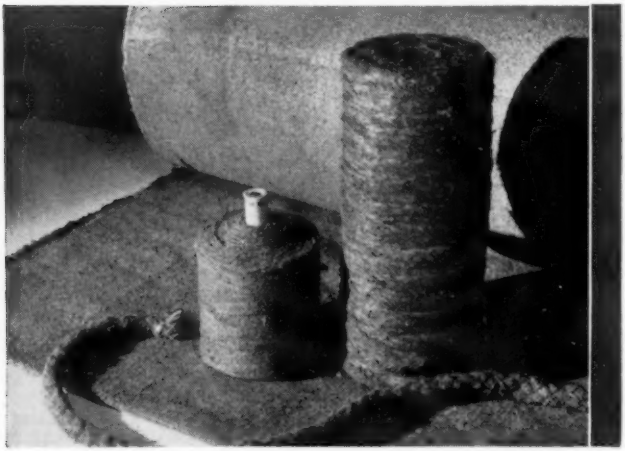
LINCOLN IRON WORKS
(Successors to Asbestos-Cement Associates, Inc.)
255 West Street Rutland, Vermont

„ *Tropag* "
Hamburg —:— Ballindamm 6
importers since 1909 of
ASBESTOS-ORES-MINERALS

NORAMITE

. . . Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

Subsidiaries of The Cape Asbestos Company, Ltd., London

PRODUCTION STATISTICS

Canada

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for December 1957 (Quebec)	47,962 tons
Other Provinces	4,225 tons
	52,187

Total production for December 1956 was 60,761 tons.

By Grades:

	Year 1956	Year 1957
Crude	644	606
Fibres	345,951	353,099
Shorts	620,550	641,306
	967,145	995,011

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for October 1957	11,515.72 tons
Valued at	£786,950
Production for October 1956	9,964.65 tons
Valued at	£695,476

AUSTRALIAN MINERAL INDUSTRY

The upward trend in the production of crocidolite asbestos at Wittenoom Gorge, Western Australia, was maintained during the second quarter of 1957; production at 2,553 tons was the highest so far recorded in a three monthly period. Production of chrysotile at Baryulgil, New South Wales, and Nunyerry, Western Australia, has remained fairly constant.

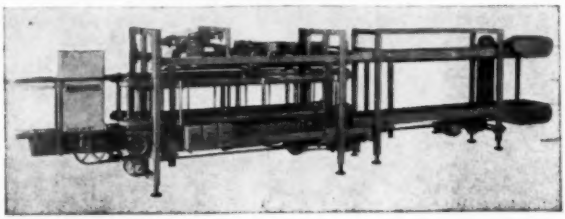
Exports of asbestos for the 9 months ending September were 7,642 tons and are likely to be over 10,000 tons for the year.

By contrast imports of all types of asbestos declined further during the first six months of 1957 and, at 11,081 tons, were about 24 per cent below those of the corresponding period of 1956.

Cement building sheets continued to be produced at a somewhat lower level in 1957 than in 1956. Production for the 7 months ending July were 13.87 million sq. ft. compared with 15.00 million sq. ft. for the corresponding period of 1956.

PACKOMATIC *Shows the way to increased efficiency in your BALE SEALING operation.*

- **ADJUSTABLE—to the accepted range of ASBESTOS Bale Sizes.**
- **AUTOMATIC—can be furnished with or without tucking device.**
- **NEW—engineered with the most advanced electrical and mechanical features available.**
- **STURDY—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.**
- **CUSTOM—DEVELOPED OUT OF THE EXPERIENCE IN THE ASBESTOS INDUSTRY.**



USERS:

Canadian Johns-Manville Corp.
The Ruberoid Company
Flintkote Mines, Ltd.

We are represented in the principal cities of the United States, Canada and Overseas Export Offices in New York City.

Your direct inquiry will receive prompt attention.

PACKOMATIC

T. M. REG. U. S. PAT. OFF.

PACKAGING MACHINERY

J. L. FERGUSON CO. JOLIET ILL.

Chicago, New York, Boston, Philadelphia, Tampa, Cleveland, Denver, San Francisco, Los Angeles, Baltimore, Seattle, Portland, Dallas, New Orleans

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	October 1957 Tons (2240 lbs.)
From: Canada	50,807
Union of S. Africa	2,176
Australia	1,547
Yugoslavia	531
Rhodesia (Ny)	789
United Kingdom	100
Other Countries	18
	55,968
Valued at	$5,721,573

By Grades:

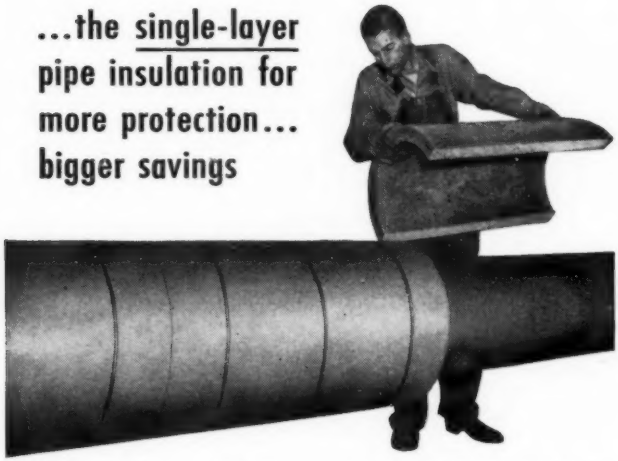
Crude, No. 2, Chrysotile	8
Crude, Other, Chrysotile, Yugoslavia	531
Crude, Other, Chrysotile, Rhodesia (Ny)	789
Crude, Other, Chrysotile, Other Ctys.	10
Crude, Blue, Australia	1,547
Crude, Blue, U. of S. Africa	1,042
Crude, Amosite, U. of S. Africa	1,032
Textile Fibres, Chrysotile, Canada	2,291
Shingle Fibres, Chrysotile, Canada	4,424
Paper Fibres, Chrysotile, Canada	3,347
Other Fibres, Chrysotile, Canada	40,745
Other Fibres, Chrysotile, United Kingdom	100
Other Fibres, Chrysotile, U. of S. Africa	102
	55,968

Manufactured Asbestos Goods:

	October 1957 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	21,602	$ 14,467
Other Countries	2,253	1,993
Asbestos Packing & Lining		
United Kingdom	50,823	12,335
Other Countries	172	781
Asbestos Shingles (Impreg.)	141,295	9,042
Asbestos Shingles (Not Impreg.)		
Canada	1,274,393	120,758

UNIBESTOS®

...the single-layer pipe insulation for more protection... bigger savings



Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation

TEXTILES

Cloth (plain and metallic)
Woven Tapes
Gasket Cloth
Sheet Packings
Front End Tape

FLEXIBLES

Insutube—slip-on
Insutape—wrap-on
Insubestos Felt
Wovenstone®—lace-on
Specialty Insulation

PACKING

High Pressure Rod Packing
Blue Asbestos Packing—acid resistant
Square Braided Packing
Valve Stem Packings—twisted and braided
Joint Runners
High Pressure Packing—semimetallic

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Write for new 40-page catalog

UNION ASBESTOS & RUBBER COMPANY

1111 West Perry Street • Bloomington, Illinois

W. Germany	1,021,003	56,067
Italy	3,000,651	131,712
Other Countries	82,655	4,855
Asbestos Manfactures — Others	.....	2,941
	5,594,847	$354,951

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1957	
	Tons (2240 lbs.)	Value
To: Europe	60	$ 8,350
Other Countries	25	4,945
	85	$13,295

Manufactured Asbestos Goods:

	November 1957	
	Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	904,978	$ 136,730
Asbestos Textiles & Yarn .....Lbs.	141,128	82,532
Asbestos Packings .....Lbs.	118,398	175,346
Asbestos Clutch Facings .....No.	139,316	87,809
Asb. Bk. Lng. (Mld. & S. Mld.) Lin. Ft.	179,401	46,000
Asbestos Brake Lining, Rolls ....Lin. Ft.	37,360	36,050
Asbestos Brake Lining, Other .....Lbs.	420,059	387,728
Asbestos Construction Materials ....Lbs.	2,984,285	360,441
Asbestos Manufactures — Others	.....	65,978
		$1,378,614

Imports of Asbestos by United Kingdom

Raw Materials

Tons 2,240 lbs.

	December 1957	Year 1957
From: Union of S. Africa	1,596	24,924
Basutoland, Bechuanaland & Swaziland	574	9,125
Rhodesia & Nyasaland	2,465	40,144
Canada	4,885	59,289
Other Commonwealth Countries	.....	2,871
Foreign Countries	28	838
	9,548	137,191

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	November 1957 Tons (2000 lbs.)	Value
Crude		
United States	16	$ 12,929
United Kingdom	....	.....
South America	....	.....
Central America & Mexico	....	.....
European Countries	57	28,044
Other Countries	10	7,980
	83	$ 48,953
Milled		
United States	7,409	$1,482,389
United Kingdom	2,151	376,400
South America	1,796	326,698
Central America & Mexico	900	155,735
European Countries	19,645	3,817,933
Other Countries	5,537	862,381
	37,438	$7,023,536
Shorts		
United States	32,146	$1,706,112
United Kingdom	3,352	136,779
South America	300	22,600
Central America & Mexico	461	27,939
European Countries	13,787	769,988
Other Countries	2,618	206,555
	52,664	$2,869,973
Grand Total—		
Unmanufactured Asbestos:	90,185	$9,942,462
Manufactured Asbestos Goods:		
Brake Lining		$ 58,731
Packing		11,334
Other Materials		109,919
		$ 179,984

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

CAPE BLUE ASBESTOS

Direct from the Mines or from stocks in London

•

TRANSVAAL BLUE • AMOSITE
CHRYSOTILE • ANTHOPHYLLITE

•

Processing of all grades of Asbestos carried out in our London Works.

CENTRAL ASBESTOS Co., LTD.

ABBEY WORKS • ABBEY STREET • LONDON S.E.1
'Phone BERMONDSEY 3864 Cables CENBESTOS LONDON
CENTRAL ASBESTOS (S. A.) PTY LTD. P.O. BOX 3570 JOHANNESBURG

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

John H. Balch, Executive Vice President, Union Asbestos & Rubber Co., Chicago, Ill., March 22.

Grady B. Gulledge, Director & General Manager, Apache Asbestos Mines, Inc., Owner & Manager, Pine Top Asbestos Mines, Globe, Arizona, March 23.

George Barge, Treasurer, Keasbey & Mattison, Ambler, Pa., March 27.

A. R. Fisher, President, Johns-Manville Corporation, New York City, March 27.

J. T. Griffis, Vice President, Southern Asbestos Company, Charlotte, N. C., March 28.

J. A. O'Brien, Vice President, Johns-Manville Corporation, New York City, March 28.

Lord Elton, Director, The Cape Asbestos Company Limited, London, England, March 29.

F. V. S. Smith, Director & Secretary, Hodgson & Hodgson, Ltd., Carrington, England, March 29.

W. C. Bowman, District Manager, The Philip Carey Mfg. Company, Philadelphia, Pa., March 30.

G. M. Williams, President, Russell Mfg. Company, Middletown, Conn., April 6.

Herbert D. Harris, Asbestos Corporation of America, New York City, April 12.

J. M. Weaver, formerly of Raybestos-Manhattan, Inc., Manheim, Pa., April 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

UNITED STATES RUBBER CO.

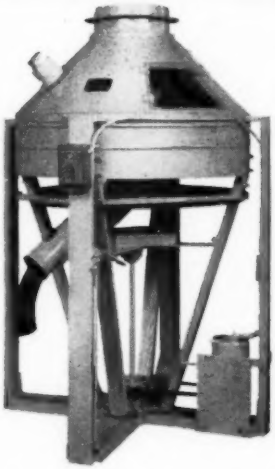
Sales of United States Rubber Co. in 1957 declined 3.1 per cent and net income was lower by 6.8 per cent compared with 1956.

Sales totaled $873,583,074 compared with $901,260,194 in 1956. Net income was $29,695,027, equivalent to $4.27 a common share, after preferred dividends, compared with $31,870,013, or $4.74 a common share, a year earlier. Earnings are calculated on 5,730,453 shares for 1957, and 5,626,640 shares for 1956, which are adjusted to reflect the 1957 stock dividend of 2 per cent.

Included in the net income for the year is $3,500,000 which represents profit from the sale of the company's wire and cable business to the Kaiser Aluminum and Chemical Corp. on February 1, 1957.

150

used in
Asbestos Industry



Bauer

Specific
Gravity
Separators

Asbestos processing plants are using 150 Bauer Specific Gravity Separators for cleaning fiber. The machines are available in two sizes with 1 to 5 T/hr. capacity.

They require less air than other types of cleaners. They handle Nos. 4 to 8 fibers.

The separators remove small grit, rock particles, blasting wire, wood particles, and many other kinds of debris. Ask for particulars.

THE BAUER BROS. CO.

1826 Sheridan Ave. • Springfield, Ohio

Canadian Agents: — Lynn Macleod Engineering Supplies, Ltd., Thedford Mines, Quebec.

Export Agents: — M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.

Australia — Statistics

(Published by Bureau of Mineral Resources)

Tons 2240 lbs.

	Quarter Ending June 30, 1957
Production	
Chrysotile	432 tons
Crocidolite	2,553
	3,765
Imports	
Amosite	1,370 tons
Chrysotile	4,633
Crocidolite	50
Other	65
	6,118
Exports	
Chrysotile	92 tons
Crocidolite	2,646
	2,738

THE COLONIAL SUGAR REFINING CO. LTD.

SYDNEY, AUSTRALIA

Sole Distributors for

AUSTRALIAN BLUE ASBESTOS LIMITED
MINES AT WITTENOOM, W.A.

SOLE SELLING AGENTS

● **Minerals Fibres Ltd., Market Buildings Mark Lane, London**

Argentine, Belgium, Brazil, Chile, Colombia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.

● **Carters (Merchants) Ltd., Winchester House Old Broad St., London**

Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

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RAW ASBESTOS

ALL GRADES—ALL TYPES

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ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.

CROCIDOLITE NEAR LUSAKA
NORTHERN RHODESIA

Blue asbestos, known as Crocidolite, which has been found only in four other parts of the world, has been discovered near Lusaka, Northern Rhodesia. The find is regarded as an interesting geological discovery, said the Acting Director of the Geological Survey Department, Major P. L. O'Brien.

"But at present it does not appear to be of great commercial value owing to its limited extent and the high water table", he added.

The crocidolite was found by accident. Mr. E. E. Testi, a Lusaka man, owns a 10-acre plot of land about six miles south-west of Lusaka. He was bulldozing a piece of land for a dam when his scraper uncovered some of this asbestos — a light powder blue color with fine silky fibres. The occurrence appears to be about 20 ft. wide and 60 ft. long.

Government geologists have been working at the site for the past two weeks, drilling and investigating the deposit.

Samples of the crocidolite have been sent to Johannesburg for full analysis by experts in this field. A report is expected soon.

Mr. Wilson said that he and Mr. Testi were hoping to get a mining concern interested in the find to work it for them. Crocidolite has a high resistance to acids and alkalis. It is found in small veins.

Said Major O'Brien: "We have dug down to 18 ft. below ground level and the deeper we went the more concentrated became the veins.

"The crocidolite is about 8 ft. below the water table, which would make it difficult to mine. If it was dry it would be ideal for a small working but it may not be sufficient to warrant expensive pumping plant to keep the water out. We don't know the full extent of the occurrence. It was a surprise to find it there".

J. L. FERGUSON COMPANY
Names Officers

J. L. Ferguson Company, Joliet, manufacturers of Parkomatic packaging equipment, announced officers names at its annual director's meeting on January 31.

J. Lee Ferguson, Jr. succeeds his father as Chairman of the Board. *J. L. Ferguson, Sr.*, founder of the firm in 1921, assumes the office of treasurer. *Donald O. Ferguson* was named executive vice-president and *Robert C. Ferguson* was re-elected president.

The company manufacturers for domestic and export distribution a complete line of automatic and semi-automatic case loaders, case sealers, package-gluers, bale sealers, case imprinters, fillers, automatic scales and related equipment.

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A TRUE CENTRIFUGAL FIBERIZER!

ENTOLETER CENTRIFUGAL FIBERIZERS will provide the desired fiberizing action with very slight, if any, reduction of potential...and incorporate the following improved features...

* **NEW . . .** rugged spindle and body assembly
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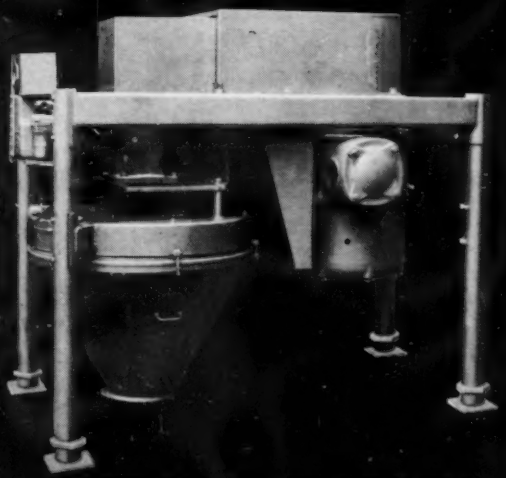
* **the LATEST . . .** in wear resistant construction



Actual photo of CentriMil . . . series 27 recently used in successful field trials on ASBESTOS IMPACT MILLING.

the ENTOLETER HEAVY DUTY CentriMil is NOW available in two sizes:
CentriMil . . . series 27 for capacities up to 6,000 lbs. per hour
CentriMil . . . series 40 for capacities up to 12,000 lbs. per hour

WRITE FOR SPECIFICATIONS . . . Free sample processing is available in the ENTOLETER Development Laboratory.

In Canada, for further information contact:
LYNN MACLEOD ENGINEERING SUPPLIES, LTD.
THETFORD MINES, QUEBEC, CANADA

ENTOLETER DIVISION
SAFETY INDUSTRIES INC.
P.O. Box 904 **New Haven 4, Conn.**

EHRET MAGNESIA MFG. COMPANY
BROADENS ITS PRODUCTION LINE

Ehret Magnesia Manufacturing Co., Valley Forge, Pa., plans to broaden its product line by the addition of glass fibre insulation for heating and air conditioning applications.

The new insulation, to be known as Therma-K, will be produced in three convenient forms: (1) Pipe cover, for insulating hot and cold water piping, low pressure steam lines, and refrigerant lines; (2) Duct liner, for insulating and reducing noise in dual heating and air conditioning ducts; and (3) Exterior duct and equipment insulation, for covering outside of metal ducts and other heating or cooling equipment.

Designed for applications where temperatures range from sub-zero to 350F, these glass fibre insulations will provide low thermal loss, exceptionally light weight, and long life. Low thermal loss will permit less thickness for equal operating efficiency. Light weight will give low density for easier trimming and installation. This insulation will have long life because the glass fibers will not shrink, rot, buckle, burn or support combustion, thereby reducing fire hazard and minimizing maintenance.

UNION ASBESTOS & RUBBER CO.
Annual Report

Net earnings of the Union Asbestos & Rubber Company for the year ending December 31, 1957 were $728,223, equivalent to $1.53 per share, compared with a net profit of $14,668 in 1956, equal to $.03 a share.

Earnings included a non-recurring item of $117,626, or 25 cents a share.

Sales in 1957 amounted to $12,486,366, compared with $12,682,659 the previous year. Elimination of the Heating and Cooling Division together with operating economies which were affected during the year resulted in greater profits.

PHILLIPS ASBESTOS MINES
Producers of
CRUDES
and
FIBERIZED ASBESTOS
The World's Finest Fibres
DRAWER 71 GLOBE, ARIZONA
Mines and Mills in Gila Co., Arizona

DURASORB FELTS give better finish because . . .

The superior needled construction of DURASORB felts results in a cushioned surface which handles your sheet with protective firmness. In addition to excellent finish, DURASORB felts provide a new degree of stability and uniformity while maintaining maximum drainage and long life.

Ask your Albany Felt Sales Engineer for full information and case histories on the outstanding performance of DURASORB felts in producing asbestos-cement shingles, siding and sheets.

ALBANY FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

OLAF P. JENKINS, CHIEF DIVISION OF MINES, RETIRES

After nearly 29 years of continuous service with California State Division of Mines, *Olaf P. Jenkins*, State Mineralogist and Chief of the Division of Mines, has announced his retirement as of March 1, 1958.

From July 1, 1929 until February 1, 1947, Dr. Jenkins served as Chief Geologist of the Geologic Branch. During this time he was responsible for many well-known publications, among which is the large colored state geologic map of 1938; Bulletin 118, affectionately called "The Bible" by oil geologists; and a paper known as "Study of Placers" that proved very popular. All these books have long been out of print.

Retirement from state service does not mean retirement from active professional work for Dr. Jenkins, nor his interest in the new state geologic map which he now has under way. He also has interesting plans for exploration work on a consulting basis.

UNARCO ACQUIRES STURDI-BILT ENGINEERING COMPANY

Assets of the Sturdi-Bilt Engineering Company, 2501 West Peterson Avenue, Niles, Ohio have been acquired by the Union Asbestos & Rubber Company.

According to a joint statement by *Edwin E. Hokin*, UNARCO president, and *Norvin Franks*, president of Sturdi-Bilt, the company will be operated as a division of the Union Asbestos & Rubber Company.

Effective March 1, Sturdi-Bilt manufacturing operations will be shifted from Niles, Ohio, to UNARCO's steel fabrication plant in Blue Island, Illinois.

The present Sturdi-Bilt personnel will continue in their present capacities with the new UNARCO division. In addition to Mr. Franks, who has been named general manager and who will head engineering and development for the new division, *B. G. (Buddy) Metzger*, will remain as sales manager.

LAKE ASBESTOS OF QUEBEC APPOINTS CALIFORNIA DISTRIBUTORS

Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada, has appointed two distributors in the important California market areas.

E. M. Walls Company of San Francisco will be the distributor for San Francisco and Northern California.

E. B. Taylor Company of Los Angeles is the newly appointed distributor in Los Angeles and Southern California.

Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580

View of Boss Mines, Mashaba

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

ASBESTOS FRICTION MATERIAL

Specially developed for certain industrial and mining applications, a new woven asbestos friction material has been placed on the market by Ferodo Ltd., Chapel-en-le-Frith, Stockport, Chesire. The new material, Ferodo ZA.1, is intended for use with winding and haulage gear, where high temperatures and arduous working conditions are encountered, and comparatively soft brake pads are in use.

The material has a zinc wire inclusion and extensive field tests shown it to have a stable coefficient of friction of from 0.38 to 0.4. It is suitable for use where temperatures of up to 300 deg. C. (572 deg. F.) are encountered and it is pointed out that it has a relatively high degree of flexibility. This not only helps to eliminate "squealing", in plants prone to this complaint, but also allows the material to be easily formed to a particular radius on the site without the need for special tools. Ferodo ZA.1 is available in roll form up to 20 in. wide and in thickness ranging from ⅛ in. to 1 in.

FLINTKOTE REPORTS RECORD SALES FOR 1957

Consolidated net sales of The Flintkote Company and subsidiaries for 1957 reached a record high of $116,249,878, while net income amounted to $7,049,848, equal to $3.83 per share on the common stock on the basis of 1,689,127 average shares outstanding during the year.

The 1957 earnings included $1,000,000, or 59 cents per average common share, of federal income tax refunds and are on a pro forma basis because of the nature of a company acquisition made during the year.

The December 31, 1957 balance sheet showed total current assets of $35,522,906 compared with total current liabilities of $10,756,766. Total assets are now over the $100 million level for the first time, amounting on December 31 last to $100,057,063.

ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of All Varieties of

RAW ASBESTOS

for Every Use

451 COMMUNIPAW AVE. JERSEY CITY, N. J.

Coming in Mid-1958:

New Source of Quality Chrysotile

ASBESTOS

ASARCO and Lake Asbestos of Quebec, Ltd., are dredging and draining a 500-acre lake to convert it into one of the richest sources of high quality, longer fibre chrysotile asbestos in the world today.

This year ASARCO's new major open-pit asbestos mine and newly constructed, modern mill will begin to produce 100,000 tons of asbestos annually. ASARCO has no plans for fabricating asbestos products, so this entire supply will be at your disposal.

If you manufacture or use any of the hundreds of products containing asbestos, you'll want to get acquainted with this dependable new source of supply soon.

ASARCO **Lake Asbestos of Quebec, Ltd.**

A Subsidiary of

AMERICAN SMELTING AND REFINING COMPANY

120 Broadway • New York 5, N. Y.

C. L. BAUER PASSES AWAY

Charles L. Bauer, former president and general manager of The Bauer Bros. Co., Springfield, Ohio, manufacturers of pulp and paper mill equipment, food processing and industrial milling machinery, died January 25th. He was 86 years old and had been in failing health for several years.

Mr. Bauer and his brothers purchased The Foos Manufacturing Co. in 1904 and he was elected president. In 1910, the name of the firm was changed to what it is known as today, The Bauer Bros. Co. He was named general manager, as well as president, in 1924, and held these positions until his retirement in 1946, when Joseph C. Shouvlin replaced him.

CURRENT RANGE OF PRICE

As of March 10, 1958

ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to	$2,000.00
No. 2 Crude (soft)	1,000.00 to	1,350.00
No. 3 Crude (soft)	400.00 to	675.00
Filter Fibre (soft)	250.00 to	475.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,475.00 to	$1,350.00
Group No. 2 (Crude No. 2): Crude Run-of-Mine and Sundry	790.00 to	1,200.00
Group No. 3 (Spinning Fibre)	370.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)		86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 381.00 to	$ 440.00
Group No. 4 (Shingle Fibre)	185.00 to	205.00
Group No. 5 (Paper Fibre)	123.00 to	155.00
Group No. 6 (Waste, Stucco or Plaster)		88.00
Group No. 7 (Refuse or Shorts)	42.00 to	77.00

ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

E. C. 4

Telephone:	Cables:
London Central 1411	Brandcolim
(Private Branch Exchange)	London

THE PHILIP CAREY MFG. CO.

The appointment of *Paul D. Japp* to Assistant Executive Vice President, Manager of Sales Relations, The Philip Carey Mfg. Company, has been announced.

Mr. Japp comes to Carey after 18 years' association with Pittsburgh Corning Corporation, Pittsburgh, Pa. — where he served successively as District Manager, General Sales Manager, and, for the past year, as Vice President.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		February 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	35½	37⅞	35⅜
Amer. Br. Shoe (Pfd.)	100	....	....	....
Armst. Ck. (Com.)	1	23⅜	24⅞	24⅜
Armst. Ck. (Pfd.)	np	88	89½	89½
Asbestos Corp. (Com.)	np	27¾	30	28¼
Carey (Com.)	10	25⅛	28¾	28¾
Cassiar Asb. Corp.	np	$6.90	$7.50	$7.50
Celotex (Com.)	1	30⅜	33¼	31
Celotex (Pfd.)	20	18	18½	18½
Certainteed (Com.)	1	9	9⅜	9¼
Fibreboard Paper Prod. (Com.)	np	24¾	26½	26
Fibreboard Paper Prod. (Pfd.)	100	89	92	90
Flintkote (Com.)	5	40	42¾	41½
Flintkote, (Pfd.)	np	91	93⅞	93⅞
Johns-Manville (Com.)	5	37	30¾	37¾
Natl. Gypsum (Com.)	1	43¾	47¼	45
Natl. Gypsum (Pfd.)	np	91½	96	96
Ray-Man (Com.)	1	51¼	52	51¼
Ruberoid (Com.)	1	33⅜	37⅜	36¾
Thermoid (Com.)	1	12¾	13⅜	12¾
Thermoid (Pfd.)	50	47¼	48½	48½
Union Asb. & Rub. (Com.)	5	6⅝	7⅜	7½
United Asb. (Com.)	1	$5.20	$5.70	$5.20
U. S. Gypsum (Com.)	4	69¾	76	73⅛
U. S. Gypsum (Pfd.)	100	169	169	169
U. S. Rubber (Com.)	5	32	35½	32⅝
U. S. Rubber (Pfd.)	100	149¼	153½	150

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

JOHNS-MANVILLE CONSOLIDATES FRICTION MATERIAL ACTIVITIES

Consolidation of Johns-Manville friction material activities under one central management has been announced by *E. H. Wells*, General Sales Manager of the Company's newly created Friction Materials Sales Department.

District sales offices for J-M friction materials are being established at key points in the United States. A new office at New York will serve the northeastern part of the country. Others will be located at Atlanta, to serve southern needs, at St. Louis for the midwest and at Los Angeles for the west.

A special district office will be established in Detroit to serve automotive equipment requirements. Each location will be headed by a District Sales Manager with wide experience in automotive and allied industrial friction material fields.

In effect, this move takes Johns-Manville friction commodities, heretofore distributed nationally on a general basis with many other industrial products of the company, and consolidates their manufacture and distribution by what amounts to a high-specialized, separate friction materials company.

INDUSTRIAL SERVICE COMPANY

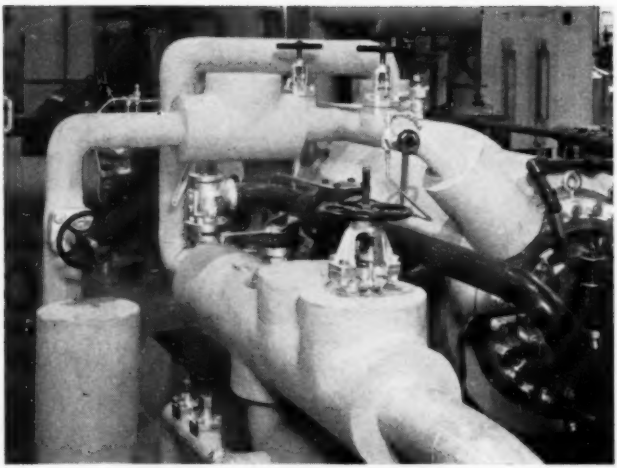
Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**



Maximum control of temperatures with
PABCO PRECISION-MOLDED CALTEMP
a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

MOODY fibre fluffer
improves Asbestos for ANY use!

. . . developed by MOODY to open and condition properly all grades of pressure packed asbestos — from shorts 7-R to spinning fibre 3-R! Fluffs, frees from lumps and mats — restores to pre-packaged fluffy condition. Compact, simple to operate — fits into any production line. Capacity 5 to 15 tons per hour — operates with 5 hp. motor.

Write for full details and literature.

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MATTHEW MOODY & SONS LTD.

ESTABLISHED 1845

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to the Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Cover Cloth, No. 2,820,721. Granted on January 21, 1958 to W. C. Hitchcock and G. C. Holroyd (assignors to United States Rubber Co., New York City). Method of manufacturing an ironing and pressing cover cloth by bonding with resin a felted, non-woven fabric composed of a major portion of asbestos fibre and a minor portion of a carrier organic fibre. A heat and wear resistant surface coating is applied, and the material dried, calendered and cured.

Floor Tile Compositions From Petroleum Resins, No. 2,823,194. Granted on February 11, 1958 to J. F. MacKay, Jr., and A. H. Gleason (assignors to Esso Research & Engineering Co., a corporation of Del.). Asbestos fibre and marble dust are added to petroleum resin floor tile composition to improve wearing characteristics of the product.

CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTERATION FIBRE

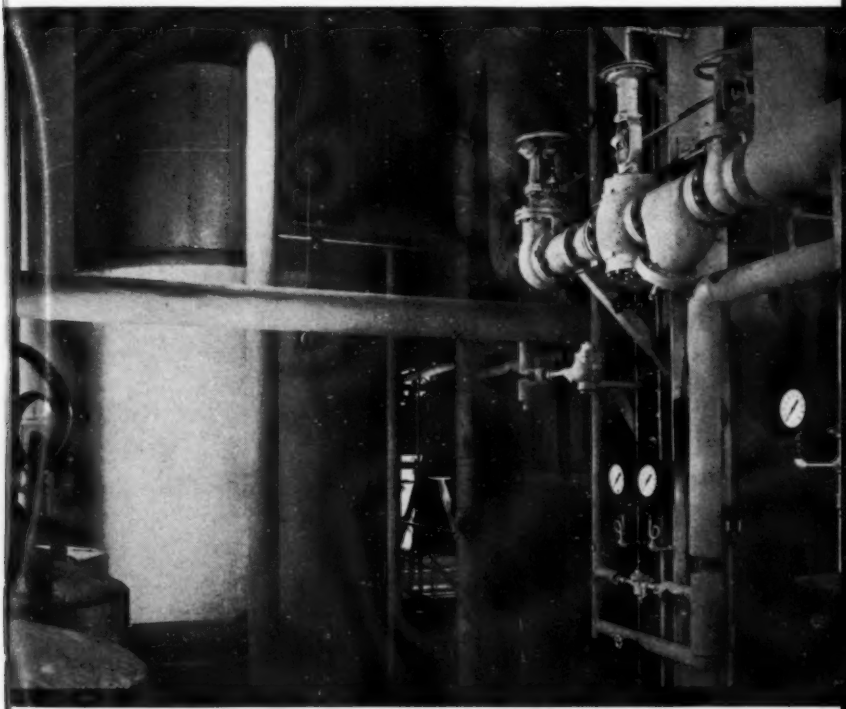
Mines & Mill:
SAN CARLOS
INDIAN RESERVATION
GILA COUNTY, ARIZONA

P.O. BOX 1506
GLOBE, ARIZONA

ONLY APPROVED CONTRACTORS INSTALL EHRET INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of Ehret-approved contractors. Only men fully skilled in the application of Ehret products are entrusted with their installation. Result: Full insulating value and long, trouble-free service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your Ehret Distributor or write direct for Bulletin 11C to the address below.



Typical THERMALITE installation. THERMALITE has unusually low thermal conductivity, is molded to exact shape, assuring tight joints and snug pipe fits essential for maximum heat economy.

SAVE HEAT WITH EHRET INSULATIONS

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE, PENNSYLVANIA

SOUTHERN ASBESTOS — TEXTILES

SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.